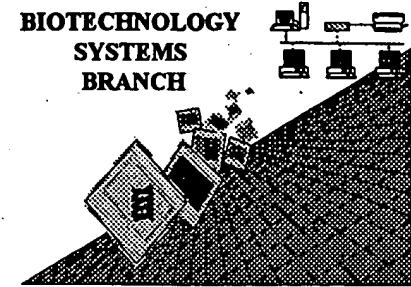


Zaghmoun

# RAW SEQUENCE LISTING

## ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

08/989, 881

Art Unit / Team No. :

1649

Date Processed by STIC:

2/12/99

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

**1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**

**2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**ARTI SHAH 703-308-4212**

**BEST AVAILABLE COPY**

# Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>08/989,881</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
2 <input type="checkbox"/> Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces. All text must be visible on page.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.	
7 <input type="checkbox"/> Wrong Designation	Sequence(s) <input type="checkbox"/> contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xI) SEQUENCE DESCRIPTION:SEQ ID NO:X: <b>This sequence is intentionally skipped</b>  Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <210> sequence Id number <400> sequence Id number 000	
10 <input type="checkbox"/> Use of N's or Xaa's (NEW RULES)	Use of N's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present.	
11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing this mandatory field or its response.	
12 <input type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Sequence Rules)	
13 <input type="checkbox"/> Wrong Format	File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.	

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/989,881DATE: 02/12/1999  
TIME: 16:51:08

Input Set: H989881.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

1 <110> APPLICANT: Sheen, Jen  
 2 <120> TITLE OF INVENTION: STRESS-PROTECTED TRANSGENIC PLANTS  
 3 <130> FILE REFERENCE: 08472/716002  
 4 <140> CURRENT APPLICATION NUMBER: US/08/989,881  
 5 <141> CURRENT FILING DATE: 1997-12-12  
 6 <150> EARLIER APPLICATION NUMBER: 60/032,966  
 7 <151> EARLIER FILING DATE: 1996-12-13  
 8 <160> NUMBER OF SEQ ID NOS: 18  
 9 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 10 <210> SEQ ID NO 1  
 11 <211> LENGTH: 1020  
 12 <212> TYPE: DNA  
 13 <213> ORGANISM: Arabidopsis thaliana  
 14 <220> FEATURE:  
 15 <400> SEQUENCE: 1      *All item 10 n 1 even summary sheet*

W--> 16 gttgtaaaaac gacggccagt gaattgtaat acgactc<sup>n</sup> atagggcgna attggagctc      60  
 17 caccgcggtg gcggccgctc tagaactagt ggatcc atg gct aat caa act cag      114  
 18 atc agc gac aag tac atc tta gga cga aac ctc ggt cgc ggc gaa ttc      162  
 19 gga atc acg tat ctt tgt aca gat aga gag act cgt gaa gct tta gct      210  
 20 tgc aaa tca atc tcc aag aga aag ctc cga acc gcc gtc gat gtg gaa      258  
 21 gac gtc cgt cgt gaa gtc acg atc atg tca act tta ccg gaa cac cca      306  
 22 aac gtt gtg aaa ctt aaa gcg act tat gag gat aac gag acc gtg cat      354  
 23 ctt gtg atg gag ctt tgt gaa gga ggt gag ctt ttt ggt cgg att gtt      402  
 24 gca aga gga cat tat aca gag cgt gcg gct acc gtc gcg aga acg      450  
 25 atc gcg gaa gtt gtg agg atg tgt cat gtc aat ggt gtt atg cat aga      498  
 26 gat ttg aag cct gag aat ttc ttg ttt gct aac aag aag gag aat tct      546  
 27 gca ctt aag gct att gat ttt ggt tta tct gtt ctc ttt aaa cct gga      594  
 28 gag agg ttt aca gag att gtt gga agt cct tat tat atg gct cca gaa      642  
 29 gtg ttg aag aga aat tat gga cca gag gtt gat gtg tgg agt gct gga      690  
 30 gtt atc ctc tac atc ttg ctt tgt ggt gtt cct ccg ttt tgg gca gag      738  
 31 act gaa caa ggt gtg gct ctt gcc atc ttg agg gga gtt ctt gat ttt      786  
 32 aag aga gat cct tgg tcg cag ata tca gag agc gca aag agc ctt gtg      834  
 33 aag cag atg ttg gaa cct gat tca act aag cgt ttg act gct cag caa      882  
 34 gtt ctt gat cac cct tgg ata cag aat gca aag aaa aggatcaagc      928  
 W--> 35 ttatcgatac cgtcgacctc gagggggggc ccggtagccat cttngttcc ctttagtgag      988  
 36 ggtaatttc gagcttggcg taatcatgtc at      1020      *item 10*  
 37 <210> SEQ ID NO 2  
 38 <211> LENGTH: 274  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Arabidopsis thaliana  
 41 <400> SEQUENCE: 2  
 42 Met Ala Asn Gln Thr Gln Ile Ser Asp Lys Tyr Ile Leu Gly Arg Glu  
 43      1                5                10                15  
 44 Leu Gly Arg Gly Glu Phe Gly Ile Thr Tyr Leu Cys Thr Asp Arg Glu

Does Not Comply  
Corrected Diskette Needed

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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/08/989,881**

DATE: 02/12/1999  
TIME: 16:51:08

Input Set: H989881.RAW

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45                               20                               25                               30
46   Thr Arg Glu Ala Leu Ala Cys Lys Ser Ile Ser Lys Arg Lys Leu Arg
47           35                               40                               45
48   Thr Ala Val Asp Val Glu Asp Val Arg Arg Glu Val Thr Ile Met Ser
49           50                               55                               60
50   Thr Leu Pro Glu His Pro Asn Val Val Lys Leu Lys Ala Thr Tyr Glu
51           65                               70                               75                               80
52   Asp Asn Glu Thr Val His Leu Val Met Glu Leu Cys Glu Gly Gly Glu
53           85                               90                               95
54   Leu Phe Gly Arg Ile Val Ala Arg Gly His Tyr Thr Glu Arg Ala Ala
55           100                              105                              110
56   Ala Thr Val Ala Arg Thr Ile Ala Glu Val Val Arg Met Cys His Val
57           115                              120                              125
58   Asn Gly Val Met His Arg Asp Leu Lys Pro Glu Asn Phe Leu Phe Ala
59           130                              135                              140
60   Asn Lys Lys Glu Asn Ser Ala Leu Lys Ala Ile Asp Phe Gly Leu Ser
61           145                              150                              155                               160
62   Val Leu Phe Lys Pro Gly Glu Arg Phe Thr Glu Ile Val Gly Ser Pro
63           165                              170                              175
64   Tyr Tyr Met Ala Pro Glu Val Leu Lys Arg Asn Tyr Gly Pro Glu Val
65           180                              185                              190
66   Asp Val Trp Ser Ala Gly Val Ile Leu Tyr Ile Leu Leu Cys Gly Val
67           195                              200                              205
68   Pro Pro Phe Trp Ala Glu Thr Glu Gln Gly Val Ala Leu Ala Ile Leu
69           210                              215                              220
70   Arg Gly Val Leu Asp Phe Lys Arg Asp Pro Trp Ser Gln Ile Ser Glu
71           225                              230                              235                               240
72   Ser Ala Lys Ser Leu Val Lys Gln Met Leu Glu Pro Asp Ser Thr Lys
73           245                              250                              255
74   Arg Leu Thr Ala Gln Gln Val Leu Asp His Pro Trp Ile Gln Asn Ala
75           260                              265                              270
76   Lys Lys
77 <210> SEQ ID NO 3
78 <211> LENGTH: 29
79 <212> TYPE: DNA
80 <213> ORGANISM: Arabidopsis thaliana
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83 <210> SEQ ID NO 4
84 <211> LENGTH: 28
85 <212> TYPE: DNA
86 <213> ORGANISM: Arabidopsis thaliana
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88   gtcaaggcct gtcgacttga acccatgg
89 <210> SEQ ID NO 5
90 <211> LENGTH: 33
91 <212> TYPE: DNA
92 <213> ORGANISM: Arabidopsis thaliana
93 <400> SEQUENCE: 5
94   gccggatccat ggctaataaa actcagatca gcg

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/989,881DATE: 02/12/1999  
TIME: 16:51:08

Input Set: H989881.RAW

95 <210> SEQ ID NO 6  
96 <211> LENGTH: 29  
97 <212> TYPE: DNA  
98 <213> ORGANISM: Arabidopsis thaliana  
99 <400> SEQUENCE: 6  
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101 <210> SEQ ID NO 7  
102 <211> LENGTH: 30  
103 <212> TYPE: DNA  
104 <213> ORGANISM: Arabidopsis thaliana  
105 <400> SEQUENCE: 7  
106 gcggatccat ggagacgaag ccaaacccta 30  
107 <210> SEQ ID NO 8  
108 <211> LENGTH: 30  
109 <212> TYPE: DNA  
110 <213> ORGANISM: Arabidopsis thaliana  
111 <400> SEQUENCE: 8  
112 gtcaaggcct tgcttggta tcgacaatcc 30  
113 <210> SEQ ID NO 9  
114 <211> LENGTH: 30  
115 <212> TYPE: DNA  
116 <213> ORGANISM: Arabidopsis thaliana  
117 <400> SEQUENCE: 9  
118 catgccatgg ctccggcgac taattcaccg 30  
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120 <211> LENGTH: 32  
121 <212> TYPE: DNA  
122 <213> ORGANISM: Arabidopsis thaliana  
123 <400> SEQUENCE: 10  
124 gtcaaggcct attttcaag aaccatttat cg 32  
125 <210> SEQ ID NO 11  
126 <211> LENGTH: 30  
127 <212> TYPE: DNA  
128 <213> ORGANISM: Arabidopsis thaliana  
129 <400> SEQUENCE: 11  
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131 <210> SEQ ID NO 12  
132 <211> LENGTH: 31  
133 <212> TYPE: DNA  
134 <213> ORGANISM: Arabidopsis thaliana  
135 <400> SEQUENCE: 12  
136 gtcaaggcct attttcaag aaccaactat g 31  
137 <210> SEQ ID NO 13  
138 <211> LENGTH: 33  
139 <212> TYPE: DNA  
140 <213> ORGANISM: Arabidopsis thaliana  
141 <400> SEQUENCE: 13  
142 gcggatccat ggctaagtca gagctggta aag 33  
143 <210> SEQ ID NO 14  
144 <211> LENGTH: 31

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/989,881DATE: 02/12/1999  
TIME: 16:51:08

Input Set: H989881.RAW

145 <212> TYPE: DNA  
146 <213> ORGANISM: Arabidopsis thaliana  
147 <400> SEQUENCE: 14  
148 gtcaaggcct attctttagg aaccatgaat g 31  
149 <210> SEQ ID NO 15  
150 <211> LENGTH: 33  
151 <212> TYPE: DNA  
152 <213> ORGANISM: Arabidopsis thaliana  
153 <400> SEQUENCE: 15  
154 gcggatccat ggctaagtat gacgttgtca agg 33  
155 <210> SEQ ID NO 16  
156 <211> LENGTH: 28  
157 <212> TYPE: DNA  
158 <213> ORGANISM: Arabidopsis thaliana  
159 <400> SEQUENCE: 16  
160 gtcaaggcct attcttcaag taccacgg 28  
161 <210> SEQ ID NO 17  
162 <211> LENGTH: 20  
163 <212> TYPE: DNA  
164 <213> ORGANISM: Hordeum vulgare  
165 <400> SEQUENCE: 17  
166 tccaccgaga tgccgacgca 20  
167 <210> SEQ ID NO 18  
168 <211> LENGTH: 26  
169 <212> TYPE: DNA  
170 <213> ORGANISM: Hordeum vulgare  
171 <400> SEQUENCE: 18  
172 gttggaggcc atggtcgtct cacgat 26

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VERIFICATION SUMMARY  
PATENT APPLICATION US/08/989,881

DATE: 02/12/1999  
TIME: 16:51:08

Input Set: H989881.RAW

Line ? Error/Warning	Original Text
16 W "N" or "Xaa" used: Feature required	gttgtaaaac gacggncagt gaattgtaat acgactcn
35 W "N" or "Xaa" used: Feature required	ttatcgatac cgtcgacctc gagggggggc ccggtaacc